

BASF Hycite® 713

Technical DataSheet | Supplied by BASF

Hycite® 713 by BASF is a fine magnesium/aluminium-hydrotalcite. It is an acid scavenger which is used as a co-stabilizer for polypropylene and other polyolefins. Its effect is due to the efficient neutralization of residual quantities of acids liberated by catalysts or other decomposition products. It can be used for color critical applications and for retardation of phosphite hydrolysis. As compared to Ca-stearate, Hycite® 713 has a significantly greater absorption capacity for acids at the same dosage level, causes lower water carry-over and shows no bleed-out effect. Due to its high fineness and a special surface modification, it shows excellent dispersibility in polymers. It can thus be used in transparent films without restrictions. Hycite® 713 can be used with standard BASF processing stabilizer systems, such as Irganox® B-blends. The recommended dosage levels are between 0.02-0.05%.

Product Type	Acid Scavengers > Hydrocalumites
Chemical Composition	Magnesium/aluminium-hydrotalcite
CAS Number	012304-65-3 or 11097-59-9
Physical Form	Powder
Appearance	White, odorless
Product Status	COMMERCIAL
Applications/ Recommended for	PP

BASF Hycite® 713 Properties

Property	Value & Unit	Test Condition	Test Method
Hardness, Mohs	2		
Specific Gravity	2.1 g/ml		
Refractive Index	1.50		
Bulk density (DIN)	270 - 330 g/l		

Loss on Drying (105°C, 2 h) 0.50 %

BET-surface (N₂) 5 - 15 m²/g

pH (1 g/50ml EtOH/H₂O) 8.5 - 9.5

Particle size, 85% volume < 1 μm

Particle size, 100% volume < 5 μm

Solubility	Element	Test Condition	Test Method
Insoluble in	water		
Insoluble in	apolar solvents		

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